

FAG

★ B7003-C-T-P4S-UL

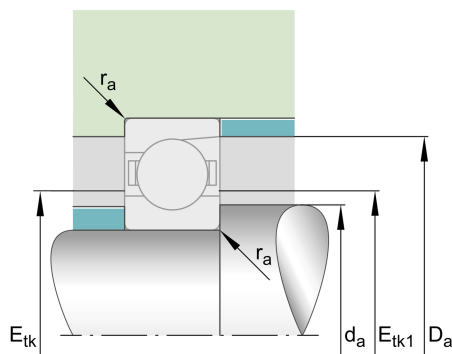
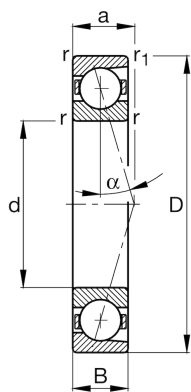
Spindle bearing

Schaeffler ID:
0191499480000

★ Preferred product

Spindle bearings B70...-C, adjusted, in pairs or sets, contact angle $\alpha = 15^\circ$, restricted tolerances

Technical information



Temperature range

| | | |
|------------|---------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |
| | 0,04 kg | Weight |

Main Dimensions & Performance Data

| | | |
|------------------------|--------------|---------------------------------------|
| d | 17 mm | Bore diameter |
| D | 35 mm | Outside diameter |
| B | 10 mm | Width |
| C_r | 8.600 N | Basic dynamic load rating, radial |
| C_{0r} | 3.500 N | Basic static load rating, radial |
| C_{ur} | 370 N | Fatigue load limit, radial |
| $n_{G \text{ Grease}}$ | 45.000 1/min | Limiting speed for grease lubrication |
| $n_{G \text{ Oil}}$ | 70.000 1/min | Limiting speed for oil lubrication |

Dimensions

| | | |
|--------------|--------|---------------------------|
| r_{\min} | 0,3 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,3 mm | Minimum chamfer dimension |
| α | 15 ° | Contact angle |



Mounting dimensions

| | | |
|----------------|---------|---|
| d_a | 21 mm | Diameter shaft shoulder |
| d_a | h12 | Diameter shaft shoulder clearance |
| D_a | 32 mm | Shoulder diameter outer ring |
| D_a | H12 | Shoulder diameter outer ring clearance |
| $r_{a \max}$ | 0,3 mm | Maximum recess radius |
| $r_{a1 \max}$ | 0,1 mm | Maximum recess radius |
| $E_{tk \min}$ | 23,3 mm | Minimum diameter injection pitch |
| $E_{tk \max}$ | 24,5 mm | Maximum diameter injection pitch |
| $E_{tk1 \min}$ | 23,3 mm | Minimum diameter injection pitch |
| $E_{tk1 \max}$ | 24,5 mm | Maximum diameter injection pitch |
| a | 8,5 mm | Distance between the apexes of the pressure cones |

Additional information

| | | |
|-----------|-----------------------|-----------------------|
| F_{VL} | 40 N | Preload force light |
| F_{VM} | 142 N | Preload force medium |
| F_{VH} | 291 N | Preload force heavy |
| K_{aEL} | 124 N | Lift-off force light |
| K_{aEM} | 474 N | Lift-off force medium |
| K_{aEH} | 1.042 N | Lift-off force heavy |
| c_{aL} | 21,1 N/ μm | Axial rigidity light |
| c_{aM} | 37,1 N/ μm | Axial rigidity medium |
| c_{aH} | 53,6 N/ μm | Axial rigidity heavy |